## § 1926.1422

## §1926.1422 Signals—hand signal chart.

Hand signal charts must be either posted on the equipment or conspicuously posted in the vicinity of the hoisting operations.

## §1926.1423 Fall protection.

- (a) Application.
- (1) Paragraphs (b), (c)(3), (e) and (f) of this section apply to all equipment covered by this subpart except tower cranes.
- (2) Paragraphs (c)(1), (c)(2), (d), (g), (j) and (k) of this section apply to all equipment covered by this subpart.
- (3) Paragraphs (c)(4) and (h) of this section apply only to tower cranes.
  - (b) Boom walkways.
- (1) Equipment manufactured after November 8, 2011 with lattice booms must be equipped with walkways on the boom(s) if the vertical profile of the boom (from cord centerline to cord centerline) is 6 or more feet.
  - $(2) \ Boom \ walkway \ criteria.$
- (i) The walkways must be at least 12 inches wide.
- (ii) Guardrails, railings and other permanent fall protection attachments along walkways are:
  - (A) Not required.
- (B) Prohibited on booms supported by pendant ropes or bars if the guardrails/railings/attachments could be snagged by the ropes or bars.
- (C) Prohibited if of the removable type (designed to be installed and removed each time the boom is assembled/disassembled).
- (D) Where not prohibited, guardrails or railings may be of any height up to, but not more than, 45 inches.
- (c) Steps, handholds, ladders, grabrails, guardrails and railings.
- (1) Section 1926.502(b) does not apply to equipment covered by this subpart.
- (2) The employer must maintain in good condition originally-equipped steps, handholds, ladders and guardrails/railings/grabrails.
- (3) Equipment manufactured after November 8, 2011 must be equipped so as to provide safe access and egress between the ground and the operator work station(s), including the forward and rear positions, by the provision of devices such as steps, handholds, ladders, and guardrails/railings/grabrails.

These devices must meet the following criteria:

- (i) Steps, handholds, ladders and guardrails/railings/grabrails must meet the criteria of SAE J185 (May 2003) (incorporated by reference, see §1926.6) or ISO 11660–2:1994(E) (incorporated by reference, see §1926.6) except where infeasible.
- (ii) Walking/stepping surfaces, except for crawler treads, must have slip-resistant features/properties (such as diamond plate metal, strategically placed grip tape, expanded metal, or slip-resistant paint).
- (4) Tower cranes manufactured after November 8, 2011 must be equipped so as to provide safe access and egress between the ground and the cab, machinery platforms, and tower (mast), by the provision of devices such as steps, handholds, ladders, and guardrails/railings/grabrails. These devices must meet the following criteria:
- (i) Steps, handholds, ladders, and guardrails/railings/grabrails must meet the criteria of ISO 11660–1:2008(E) (incorporated by reference, see §1926.6) and ISO 11660–3:2008(E) (incorporated by reference, see §1926.6) or SAE J185 (May 2003) (incorporated by reference, see §1926.6) except where infeasible.
- (ii) Walking/stepping surfaces must have slip-resistant features/properties (such as diamond plate metal, strategically placed grip tape, expanded metal, or slip-resistant paint).
- (d) Personal fall arrest and fall restraint systems. Personal fall arrest system components must be used in personal fall arrest and fall restraint systems and must conform to the criteria in §1926.502(d) except that §1926.502(d)(15) does not apply to components used in personal fall arrest and fall restraint systems. Either body belts or body harnesses must be used in personal fall arrest and fall restraint systems.
- (e) For non-assembly/disassembly work, the employer must provide and ensure the use of fall protection equipment for employees who are on a walking/working surface with an unprotected side or edge more than 6 feet above a lower level as follows:
  - (1) When moving point-to-point:
- (i) On non-lattice booms (whether horizontal or not horizontal).